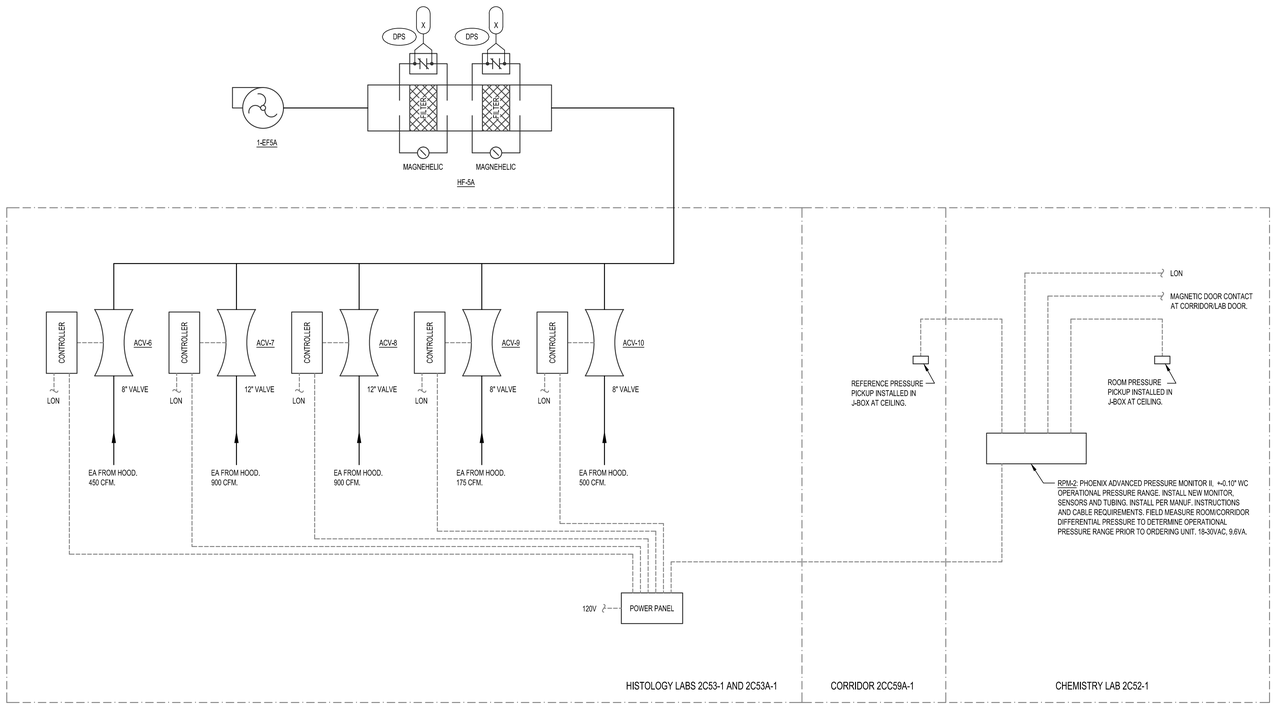
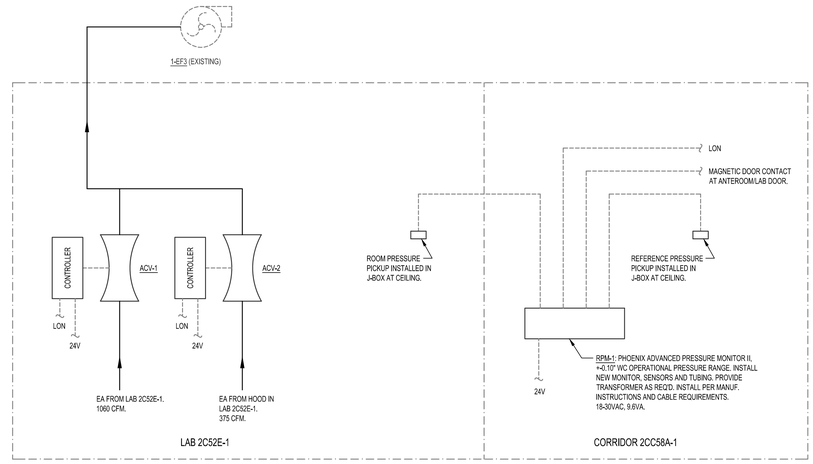
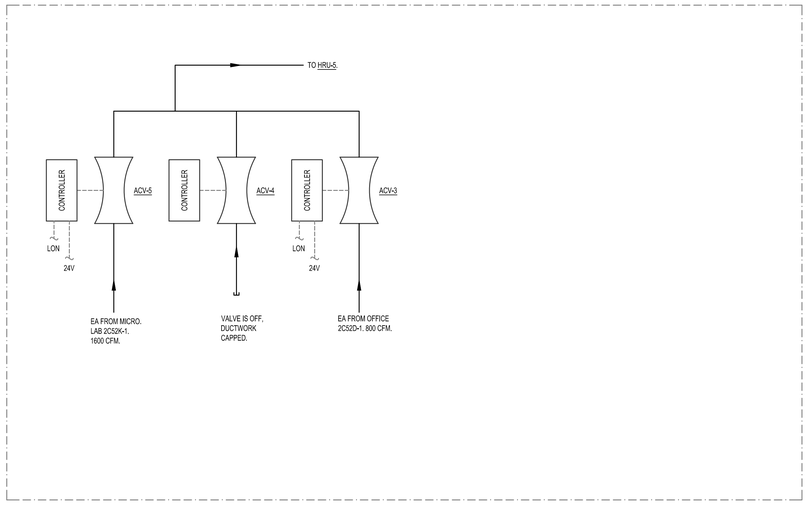




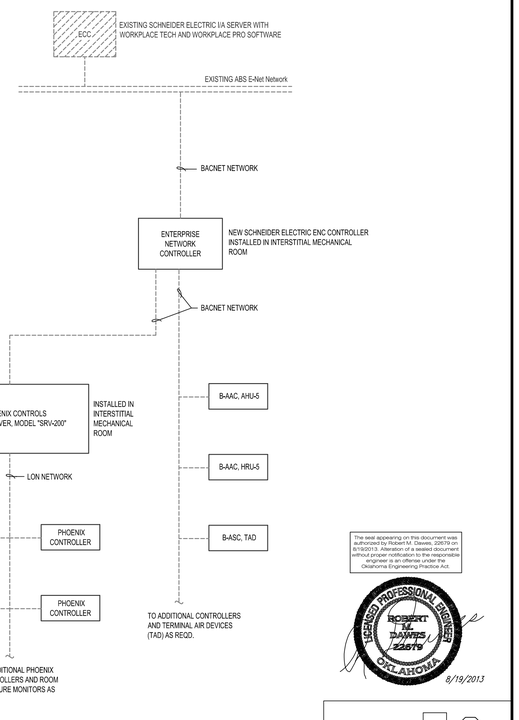


AIRFLOW CONTROL VALVE (ACV), CONTROL SEQUENCE:

1. GENERAL:
   A. EACH ACV SHALL BE PROVIDED WITH A FACTORY PROGRAMMED DEDICATED DDC CONTROLLER TO IMPLEMENT THE SEQUENCE OF OPERATION DESCRIBED BELOW:
      (1. THE VALVE CFM SHALL BE FIELD ADJUSTABLE.
      (2. THE VALVE SHALL MODULATE TO MAINTAIN THE SCHEDULED CFM INDEPENDENT OF THE SYSTEM PRESSURE.
      (3. THE HIGH AND LOW LIMIT FOR THE ACV SHALL BE SET TO +-10% (ADJ) OF THE SCHEDULED CFM.
   B. 1-EF5A SHALL RUN CONTINUOUSLY. INSTALL CURRENT SENSORS ON EXHAUST FAN 1-EF5A. UTILIZE THE FAN CURRENT SENSORS TO MONITOR THE FAN.
   C. 1-EF3 SHALL RUN CONTINUOUSLY. INSTALL CURRENT SENSORS ON EXHAUST FAN 1-EF3. UTILIZE THE FAN CURRENT SENSORS TO MONITOR THE FAN.
2. SYSTEM GRAPHICS: THE SYSTEM GRAPHICS SHALL DISPLAY ALL POINTS INDICATED ON THE CONTROL SCHEMATIC AND THE FOLLOWING ITEMS:
   A. CFM SETPOINT FOR EACH ACV.
   B. CFM THROUGH EACH ACV.
   C. TOTAL CFM FOR ALL ACV SERVED BY A SINGLE FAN.
   D. HIGH/LOW LIMIT CFM SETPOINT FOR EACH ACV. AN ALARM SHALL BE SET AT THE OPERATORS WORKSTATION IF THE CFM RISES ABOVE OR FALLS BELOW THE HIGH/LOW LIMIT CFM SETPOINT.
   E. GENERAL ALARM. AN ALARM SHALL BE SET AT THE OPERATORS WORKSTATION IF THERE IS A GENERAL FAULT IN THE CONTROLLER, JAMMED LINKAGE OR A SENSOR FAILURE AS APPLICABLE.
   F. STATUS OF FAN 1-EF5A.
   G. STATUS OF FAN 1-EF3.
   H. IF THE FAN SERVING THE ACV IS ON, THE ACV STATUS SHALL BE DISPLAYED AS ENABLED AT THE OPERATORS WORKSTATION.
   I. IF THE FAN SERVING THE ACV IS OFF, THE ACV STATUS SHALL BE DISPLAYED AS DISABLED AT THE OPERATORS WORKSTATION.
   J. THE DIFFERENTIAL PRESSURE MEASURED ACROSS FILTER HF-5A:
      (1. PROVIDE A YELLOW MAINTENANCE WARNING WHEN THE DIFFERENTIAL PRESSURE EXCEEDS 0.7 INCHES (ADJ.) FOR THE PREFILTER AND 1.3 INCHES (ADJ.) FOR THE FINAL FILTER.
      (2. PROVIDE A RED MAINTENANCE WARNING WHEN THE DIFFERENTIAL PRESSURE EXCEEDS 0.9 INCHES (ADJ.) FOR THE PREFILTER AND 1.5 INCHES (ADJ.) FOR THE FINAL FILTER.

ROOM PRESSURE MONITOR (RPM), CONTROL SEQUENCE:

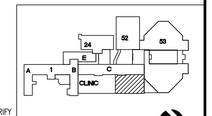
1. GENERAL:
   A. RPM-1 SHALL PROVIDE LOCAL ALARMS AND ALARMS AT THE OPERATORS WORKSTATION.
      1. WHEN THE MAGNETIC DOOR CONTACTS ARE OPEN, AUDIBLE ALARMS SHALL BE DISABLED.
      2. DOOR STATUS AND RECORDED DIFFERENTIAL PRESSURE READINGS SHALL BE LOGGED CONCURRENTLY.
   B. RPM-2 IS FOR MONITORING PURPOSES. STATUS WILL BE DISPLAYED AT THE OPERATORS WORKSTATION. LOCAL ALARMS SHALL BE DISABLED.
      1. WHEN THE MAGNETIC DOOR CONTACTS ARE OPEN, DOOR OPEN SHALL BE DISPLAYED AT THE OPERATORS WORKSTATION.
      2. DOOR STATUS AND RECORDED DIFFERENTIAL PRESSURE READINGS SHALL BE LOGGED CONCURRENTLY.
2. SYSTEM GRAPHICS: THE SYSTEM GRAPHICS SHALL DISPLAY ALL POINTS INDICATED ON THE CONTROL SCHEMATIC AND THE FOLLOWING ITEMS:
   A. ROOM PRESSURE DIFFERENTIAL.
   B. DOOR STATUS



ASBESTOS NOTE:
IF THE EXECUTION OF THIS WORK REQUIRES THE DISTURBING OF ANY SUBSTANCE WHICH APPEARS TO BE ASBESTOS OR WHICH MAY CONTAIN ASBESTOS FIBER, NOTIFY THE OWNER BEFORE CONTINUING WORK AT THE SUSPECT LOCATION. ANY MATERIAL TESTING POSITIVE SHALL BE REMOVED BY THE OWNER BEFORE WORK CONTINUES.

NOTE: EXISTING CONDITIONS SHOWN WERE DERIVED FROM OWNER FURNISHED DRAWINGS AND FIELD OBSERVATIONS. SOME BUILDING FEATURES AND MEP SYSTEMS ARE NOT SHOWN FOR CLARITY. FIELD VERIFY BUILDING CONSTRUCTION. FIELD VERIFY THE LOCATION, SIZE AND QUANTITY OF ALL EQUIPMENT.

NOTE: REFER TO DETAILS AND SCHEMATICS FOR PIPING, VALVES, FITTINGS AND OTHER APPURTENANCES REQUIRED, BUT NOT SHOWN FOR CLARITY.



KEY PLAN
SCALE: NO SCALE
PROJECT NORTH

REVISIONS:	DISCRIPTION:	DATE:

Dept. of Veterans Affairs
Jack C. Montgomery
Medical Center
1011 Honor Height Drive
Muskogee, Oklahoma 74401

ENGINEER:	CONSULTANTS:
RMD CONSULTING, LLC 2815 VALLEY VIEW LANE, STE. 214 DALLAS, TX 75234 P: 972-488-8077 F: 972-488-8174 OK REG. ENGINEERING FIRM: 5183	ARCHITECT: ARCHITECTURAL CONCEPTS, INC. 669 AIRPORT FREEWAY, STE. 300 HURST, TX 76053 P: 817-285-8885 F: 817-285-8021

APPROVED:	APPROVED: Interior Designer	APPROVED: Safety Manager	APPROVED: Medical Center Director
APPROVED:	APPROVED:	APPROVED: Infection Control Nurse	APPROVED: Associate Director
APPROVED:	APPROVED:	APPROVED: Industrial Hygienist	APPROVED: Chief of Staff
APPROVED:	APPROVED:	APPROVED: President A.F.G.E. 2250	APPROVED: Chief of Engineering Service

DRAWING TITLE: HVAC CONTROLS		PROJECT TITLE: REPLACE LABORATORY AIR HANDLING UNITS	
PROJECT NO.: 623-11-107	CONTRACT NO.: VA256-12-C-0295	DESIGNED BY:	DRAWN BY: / CHECKED BY:
BUILDING NO.: CLINICAL	AUTOCAD FILE NAME:	LOCATION: Jack C. Montgomery VA Medical Center	

DATE: 8/19/2013
SCALE: AS SHOWN
DRAWING NO.: MI2.0
DWG. 26 OF 40

DEPARTMENT OF VETERANS AFFAIRS